



Certificate no.:
TAS00004TC

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Offshore Tank Container

with type designation(s)

T11 Offshore chemical tank container - AE-4104

issued to

ARC Engineering LLC

UMM AI QUWAIN, United Arab Emirates

is found to comply with

DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023 (Amended December 2024)
ISO 10855-1:2024 Offshore containers and associated liftings sets – Part 1: Design, manufacture and marking of offshore containers
IMO/MSC Circular 860
International Maritime Dangerous Goods Code (IMDG)
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)

Application:

UN Portable Offshore Tank, Tank Instruction: T11

Max. gross mass (kg)	6405
Max. payload (kg)	3000
Tank cap. (L)	3187
MAWP/test pr. (bar)	4.0 / 6.0
Eq. shell thk (mm)	7.5

Issued at **Høvik** on **2025-04-15**

This Certificate is valid until **2030-04-14**.

for **DNV**

DNV local unit: **VMC UAE**

Approval Engineer: **Nina Thorvaldsen Moberg**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Designs approved according to IMDG Code, Edition 2024 Amdt. 42-24.

Max. external dimensions:	1995 x 1995 x 2395 mm
Tare mass:	3405 kg
Pressure vessel code, tank:	ASME VIII Div. 1
Nominal shell tank thickness:	6 mm
Tank material:	ASME SA240 Gr. 316/316L

Application/Limitation

IMDG/ADR/RID design approval number¹⁾: N-NV/677/01/25

¹⁾ARC Engineering LLC is responsible for proper use of the number.

Metallurgical design temperature for tank:	-40°C to +50°C
Design temperature for framework:	-20°C
Setting of relief valve:	4.4 bar
Vacuum settings:	-0.21 bar
Min. shackle bolt diameter:	21.9 mm
Lifting slings Max angle of legs from vertical:	30°
Enhancement factor:	1.739

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG and ADR/RID code: from T1, T2, T3, T4, T6, T7 and T11.

Removable side frame protection plates must be in place during transport/lifting operations.

DNV surveyor has to witness important production and test events and issue Form no. 71.08a "Certificate for Offshore Container" and Form no. CTT101 "Tank Container Certificate" for each container.

Production strength tests (All point lifting) to be carried out according to DNV-ST-E271 and after agreement with the DNV surveyor.

The certificates are only valid when the containers are fitted with a lifting set certified according to DNV-ST-E271.

Each tank should be subjected to a hydraulic pressure test to the specified test pressure.

Items of equipment shall be arranged, protected and marked per the requirements of IMDG code section 6.7.2.5. Verification shall be carried out by the surveyor.

Type Approval documentation

Tests carried out

Prototypes tested according to the requirements.

Marking of product

Each container to be marked with:

- Data plates for UN tanks according to IMDG Code Ch. 6.7.2.20. Design approval number according to Application/Limitation above
- Data plates according to DNV / ISO requirements
- External marking according to IMDG / DNV / ISO requirements
- DNV decal for offshore containers
- NV mark to be hard stamped on frame
- Manufacturer's Serial Number to be welded on frame

Periodical assessment



Job ID: **262.1-042645-1**
Certificate no.: **TAS00004TC**

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonized with other surveys and audits carried out. This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE